

# Monoclonal Antibody CD42b

PN IM0409 – Purified – Freeze-dried – 0.2 mg – Clone SZ2

For Research Use Only. Not for use in diagnostic procedures.

## SPECIFICITY

The CD42b antigen (GPIIb) is a membrane glycoprotein of 135 kDa, that forms a disulfide linked 160 kDa membrane protein with the CD42c (GP1b $\beta$ ) known as GP1b. GP1b forms a noncovalent complex with GPIX (CD42a) and GPV (CD42d). This antigen is found on platelets and megakaryocytes. It has also been reported on vascular and tonsillar endothelial cells. The CD42a-d complex is the receptor for von Willebrand's factor and is known as von Willebrand's factor-dependent adhesion receptor.

SZ2 monoclonal antibody prevents the ristocetin-dependent binding of von Willebrand's factor to platelets and inhibits ristocetin-induced platelet aggregation. Platelet aggregation induced by type I collagen and Platelet Activating Factor (PAF) is also inhibited. SZ2 antibody immunoprecipitates the components of the gplb complex.

The SZ2 mAb has been assigned to the CD42b cluster of differentiation at the fifth International Workshop on Human Leucocyte Differentiation Antigens held in Boston, USA, in 1993 (1).

## REAGENT

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<b>Clone</b>	SZ2
<b>Isotype</b>	IgG1, mouse
<b>Immunogen</b>	Human washed platelets
<b>Hybridoma</b>	P3-X63-Ag.8 x Balb/c spleen cells
<b>Source</b>	Ascites fluid
<b>Purification</b>	Protein A affinity chromatography
<b>Buffer</b>	1 mg/mL bovine serum albumin in phosphate-buffered saline

## APPLICATION

Studies of CD42b positive cells by flow cytometry.

## STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Do not expose reagents to strong light during storage or incubation.
5. Avoid microbial contamination of reagents or incorrect results might occur.

## STORAGE CONDITIONS AND STABILITY

This freeze-dried form may be stored at 2 – 8°C until the expiration date stated on the vial label.

No preservative has been added.

## REAGENT PREPARATION

Depending of usage, reconstitute with 1 mL of distilled water, with or without 0.1% sodium azide (w/v).

The reconstituted form including 0.1% sodium azide may be stored for up to one month at 2 – 8°C.

The reconstituted form without sodium azide can be stored at –20°C or less, until the expiration date stated on the vial label.

In this case, aliquotting is recommended to avoid multiple freezing / thawing cycles.

## PROCEDURE

For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

## SELECTED RESEARCH REFERENCES

1. Michelson, A.D., "CD42 cluster workshop report", 1995, Leucocyte Typing V, White Cell Differentiation Antigens, Schlossman, et al., Eds., Oxford University Press, p 1309-1310.

## PRODUCT AVAILABILITY

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## TRADEMARKS

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